



erwin Data Intelligence – DQLabs

Installation Guide – SSL Certificate for Linux

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Purpose

The purpose of this document is to serve as a user guide for importing SSL certificates in Linux.

Prerequisites

- SSL Certificate (crt)
- Trust Certificate (crt)
- Privatekey (key)
- Create subdomain and point to public ip of the machine

SSL Setup

Step 1: To create a folder and paste the SSL certificate

Open the terminal and enter the command: **“cd /etc/apache2”**

Create a folder in the path opened by using the command: **“mkdir <foldername>”** (eg: ssl)

```
root@      :/etc/apache2# ls
apache2.conf  conf-available  conf-enabled  envvars  magic  mods-available  mods-enabled  ports.conf  sites-available  sites-enabled  ssl
```

Now open the created folder using the command **“cd <folder name>”**

Make sure the following details are available inside a single folder in your system

- The SSL Certificate
- Your domain key file that you’ve generated while creating the CSR. (eg.,private.pem)

Now move the folder mentioned above inside the created folder using the command **“mv <folder name> <path to folder>”**

Step 2: To enable the SSL module

- Run the command to enable the SSL module **“sudo a2enmod ssl”**.

Step 3: Config file configuration

- Change directory location to /etc/apache2/sites-enabled with cd command **“cd /etc/apache2/sites-enabled”**
- with vi editor open dqlabs.conf(command to open in vi editor **“vi dqlabs.conf”**)
- Add the mentioned line below the line <VirtualHost *:80> in the file (dqlabs.conf)

RewriteEngine On

RewriteCond %{HTTPS} off

RewriteRule (.*) https://%{HTTP_HOST}%{REQUEST_URI}

```
</VirtualHost>
```

```
<VirtualHost *:443>
```

```
SSLEngine On
```

```
SSLCertificateFile /etc/apache2/ssl/<public_certificate.crt>
```

```
SSLCertificateKeyFile /etc/apache2/ssl/<privatekey.key>
```

```
SSLCACertificateFile /etc/apache2/ssl/<TrustedRoot.crt>
```

Step 4:

- File should be same as shown in below image. Public , private and trust certificate name should updated as same as file name created in ssl folder

```
VirtualHost *:80>
RewriteEngine On
RewriteCond %{HTTPS} off
RewriteRule (.*) https://%{HTTP_HOST}%{REQUEST_URI}
</VirtualHost>
<VirtualHost *:443>
SSLEngine On
SSLCertificateFile /etc/apache2/ssl/spokane.crt
SSLCertificateKeyFile /etc/apache2/ssl/spokane.key
SSLCACertificateFile /etc/apache2/ssl/TrustedRoot.crt
```

- Or you can delete “dqlabs.conf” file and create new file “dqlabs.conf”.
- To create a new file follow the steps given below.
- Command to delete the configuration file (dqlabs.config): “rm dqlabs.conf”
- Command to delete the configuration file (dqlabs.config): “vi dqlabs.conf”
- press “i” key for insert and paste the below lines with the certificate name which you provided in ssl folder (Public, private and trusted certificate).

```
<VirtualHost *:80>
```

```
RewriteEngine On
```

```
RewriteCond %{HTTPS} off
```

```
RewriteRule (.*) https://%{HTTP_HOST}%{REQUEST_URI}
```

```
</VirtualHost>
```

```
<VirtualHost *:443>
```

```
SSLEngine On
```

```
SSLCertificateFile /etc/apache2/ssl/<publiccertificate>.crt
```

```
SSLCertificateKeyFile /etc/apache2/ssl/<privatekey>.key
```

```
SSLCACertificateFile /etc/apache2/ssl/<TrustedRoot>.crt
```

```
DocumentRoot /var/www/html

<Directory /var/www/html>

RewriteEngine On

RewriteBase /

RewriteRule ^index\.html$ - [L]

RewriteCond %{REQUEST_FILENAME} !-f
RewriteCond %{REQUEST_FILENAME} !-d
RewriteCond %{REQUEST_FILENAME} !-l
RewriteRule . /index.html [L]

</Directory>

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

ProxyPass /socket.io/ http://localhost:8000/socket.io/
ProxyPassReverse /socket.io/ http://localhost:8000/socket.io/
ProxyPass /api http://localhost:8000/api
ProxyPassReverse /api http://localhost:8000/api
ProxyPass /admin http://localhost:8000/admin
ProxyPassReverse /admin http://localhost:8000/admin
ProxyPass /help http://localhost:8000/help
ProxyPassReverse /help http://localhost:8000/help
ProxyPass /static/drif-yasg http://localhost:8000/static/drif-yasg
ProxyPassReverse /static/drif-yasg http://localhost:8000/static/drif-yasg
ProxyPass /logs http://localhost:8000/logs connectiontimeout=900 timeout=900
ProxyPassReverse /logs http://localhost:8000/logs
ProxyPass /logs http://localhost:8000/logs connectiontimeout=900 timeout=900
ProxyPassReverse /logs http://localhost:8000/logs
ProxyPass /datascripts http://localhost:8000/datascripts
ProxyPassReverse /datascripts http://localhost:8000/datascripts

</VirtualHost>
```

Step 5:

- To save the config file, click the esc button and enter “:wq!” and hit the enter button.

Step 6:

- Once all done just restart the apache2 server by using the command “**sudo systemctl restart apache2**”

Step 7:

- Run the command “**lsof -i:443**” and make sure the Apache is running on the port 443.

```
root@ip-172-31-81-143:/etc/apache2/sites-enabled# lsof -i:443
COMMAND PID    USER  FD  TYPE DEVICE SIZE/OFF NODE NAME
apache2 3388   root   6u  IPv6  39086    0t0  TCP *:https (LISTEN)
apache2 3390 www-data 6u  IPv6  39086    0t0  TCP *:https (LISTEN)
apache2 3391 www-data 6u  IPv6  39086    0t0  TCP *:https (LISTEN)
root@ip-172-31-81-143:/etc/apache2/sites-enabled#
```